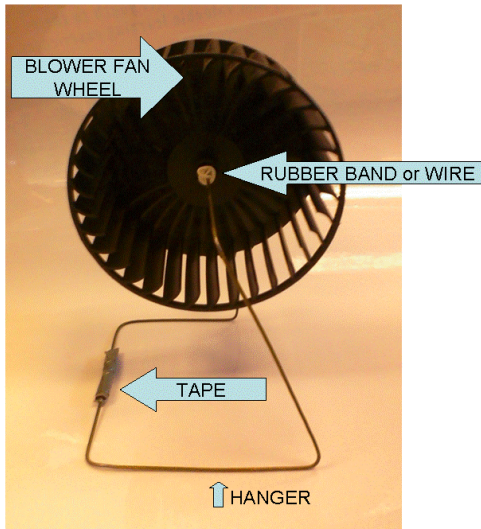


## Instructions for Creating a Water Wheel

This is *one* way to design a water wheel for the “Making More Hydro-Power” activity in the “Stewardship is Where You Are” curriculum. Inquisitive youth can be encouraged to create their own designs.



**Step 1:** Use pliers to straighten a hanger, cut off the parts that are not straight.

**Step 2:** Use wire or a rubber-band to put make one of the collars that will stop the wheel from wobbling or sliding.

**Step 3:** Slide on the blower fan wheel.

**Step 4:** Use wire or a rubber-band on the other side of the hanger wire to brace the wheel. Position the wheel so that it is closer to one of the legs of the hanger than the other.

**Step 5:** Bend the hanger until it makes a stand that holds the weight of the wheel.

**Step 6:** Tape the hanger ends closed with water resistant duct-tape.

**Step 7:** Cut a small piece of a water resistant playing card and fold it as shown:



**Step 8:** Fasten the card to the edge of the waterwheel using duct tape so that it makes contact with the leg of the hanger with every rotation.

**Step 9:** Place the water wheel in a sink and run water over it to test it for stability. Make modifications as necessary before moving onto the rest of the activity.

